Table S1 Equation about model-based weight probability scores for LMA sizes

Age	Size	Gender	Formula
Adults	3	Male	$e^{14.977-0.312*w} \Big/ \left(1+e^{14.977-0.312*w}+e^{10.46-0.153*w}+e^{-16.184+0.123*w}\right)$
	3	Female	$e^{9.436-0.235*w} \Big/ \left(1+e^{9.436-0.235*w}+e^{-15.053+0.189*w}\right)$
	4	Male	$e^{10.46-0.153*w} \Big/ \left(1+e^{14.977-0.312*w}+e^{10.46-0.153*w}+e^{-16.184+0.123*w}\right)$
	4	Female	$1 \Big/ \left(1+e^{9.436-0.235*w}+e^{-15.053+0.189*w}\right)$
	5	Male	$1 \Big/ \left(1+e^{14.977-0.312*w}+e^{10.46-0.153*w}+e^{-16.184+0.123*w}\right)$
	5	Female	$e^{-15.053+0.189*w} \Big/ \left(1+e^{9.436-0.235*w}+e^{-15.053+0.189*w}\right)$
	6	Male	$e^{-16.184+0.123*w} \Big/ \left(1+e^{14.977-0.312*w}+e^{10.46-0.153*w}+e^{-16.184+0.123*w}\right)$
Adolescents	2.5	Male	$e^{24.597-0.688*w} \Big/ \left(1+e^{24.597-0.688*w}+e^{12.948-0.267*w}+e^{-10.291+0.139*w}\right)$
	2.5	Female	$e^{32.625-0.942*w} \Big/ \left(1+e^{32.625-0.942*w}+e^{13.074-0.277*w}+e^{-14.691+0.177*w}\right)$
	3	Male	$e^{12.948-0.267*w} \Big/ \left(1+e^{24.597-0.688*w}+e^{12.948-0.267*w}+e^{-10.291+0.139*w}\right)$
	3	Female	$e^{13.074-0.277*w} \Big/ \left(1+e^{32.625-0.942*w}+e^{13.074-0.277*w}+e^{-14.691+0.177*w}\right)$
	4	Male	$1 \Big/ \left(1+e^{24.597-0.688*w}+e^{12.948-0.267*w}+e^{-10.291+0.139*w}\right)$
	4	Female	$1 \Big/ \left(1+e^{32.625-0.942*w}+e^{13.074-0.277*w}+e^{-14.691+0.177*w}\right)$
	5	Male	$e^{-10.291+0.139*w} \Big/ \left(1+e^{24.597-0.688*w}+e^{12.948-0.267*w}+e^{-10.291+0.139*w}\right)$
	5	Female	$e^{-14.691+0.177*w} \Big/ \left(1+e^{32.625-0.942*w}+e^{13.074-0.277*w}+e^{-14.691+0.177*w}\right)$
Children	1.5	Male	$e^{7.782-0.803*w} \Big/ \left(1+e^{7.782-0.803*w}+e^{-12.193+0.618*w}+e^{-23.526+0.981*w}\right)$
	1.5	Female	$e^{7.082-0.729*w} \Big/ \left(1+e^{7.082-0.729*w}+e^{-11.693+0.584*w}+e^{-23.859+0.977*w}\right)$
	2	Male	$1 \Big/ \left(1+e^{7.782-0.803*w}+e^{-12.193+0.618*w}+e^{-23.526+0.981*w}\right)$
	2	Female	$1 \Big/ \left(1+e^{7.082-0.729*w}+e^{-11.693+0.584*w}+e^{-23.859+0.977*w}\right)$
	2.5	Male	$e^{-12.193+0.618*w} \Big/ \left(1+e^{7.782-0.803*w}+e^{-12.193+0.618*w}+e^{-23.526+0.981*w}\right)$
	2.5	Female	$e^{-11.693+0.584*w} \Big/ \left(1+e^{7.082-0.729*w}+e^{-11.693+0.584*w}+e^{-23.859+0.977*w}\right)$
	3	Male	$e^{-23.526+0.981*w} \Big/ \left(1+e^{7.782-0.803*w}+e^{-12.193+0.618*w}+e^{-23.526+0.981*w}\right)$
	3	Female	$e^{-23.859+0.977*w} \Big/ \left(1+e^{7.082-0.729*w}+e^{-11.693+0.584*w}+e^{-23.859+0.977*w}\right)$

"w" represents weight in the above table. We used "mlogit" in STATA software to calculate the coefficient for the multi-nominal logistic regression model.